

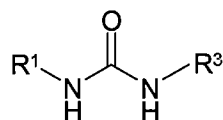
Amendments to the Claims:

Please amend claims 46-49 and add new claims 50-53. This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-45. Canceled.

46. (Currently Amended) A method of reducing blood pressure in a patient, the method comprising administering to the patient a therapeutically effective amount of an inhibitor of soluble epoxide hydrolase, wherein said ~~which~~ inhibitor is a compound or a pharmaceutically acceptable salt thereof having a structure of:

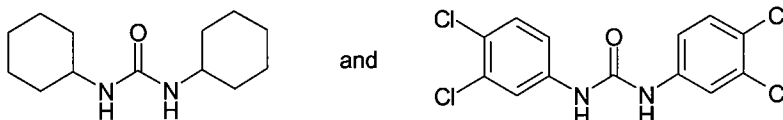


wherein R¹ and R³ are each independently selected from the group consisting of C₁-C₂₀ substituted or unsubstituted alkyl, cycloalkyl, aryl, acyl, and heterocyclic.

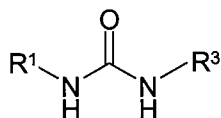
47. (Currently Amended) A method of reducing blood pressure in a patient, the method comprising administering to the patient a therapeutically effective amount of an inhibitor of soluble epoxide hydrolase, wherein said ~~which~~ inhibitor or a pharmaceutically acceptable salt thereof is selected from the group consisting of a compounds recited in Table I as:

number (nb) 20, number (nb) 21, number (nb) 22, number (nb) 23, number (nb) 36,
number (nb) 38, number (nb) 44, number (nb) 53, number (nb) 57, number (nb) 58,
number (nb) 59, number (nb) 60, number (nb) 65, number (nb) 66, number (nb) 67,
number (nb) 75, number (nb) 100, number (nb) 103, number (nb) 104, number (nb) 105,
number (nb) 108, number (nb) 118, number (nb) 119, number (nb) 124, number (nb) 125,
number (nb) 126, number (nb) 128, number (nb) 140, number (nb) 143, number (nb) 148,

number (nb) 151, number (nb) 153, number (nb) 156, number (nb) 157, number (nb) 159, number (nb) 167, number (nb) 168, number (nb) 169, number (nb) 170, number (nb) 172, number (nb) 175, number (nb) 176, number (nb) 178, number (nb) 179, number (nb) 180, number (nb) 181, number (nb) 183, number (nb) 188, number (nb) 189, number (nb) 192, number (nb) 193, number (nb) 253, number (nb) 257, number (nb) 270, number (nb) 283, number (nb) 286, number (nb) 287, number (nb) 297, number (nb) 299, number (nb) 341, number (nb) 343, number (nb) 344, number (nb) 347, number (nb) 354, number (nb) 358, number (nb) 359, number (nb) 360, number (nb) 361, number (nb) 362, number (nb) 375, number (nb) 377, number (nb) 379, number (nb) 380, number (nb) 384, number (nb) 385, number (nb) 411, number (nb) 412, number (nb) 413, number (nb) 425, number (nb) 427, number (nb) 428, number (nb) 429, number (nb) 430, number (nb) 434, number (nb) 435, number (nb) 437, number (nb) 438, number (nb) 461, number (nb) 463, number (nb) 470, number (nb) 471, number (nb) 473, number (nb) 477, number (nb) 478, number (nb) 479, number (nb) 501, number (nb) 504, number (nb) 508, number (nb) 509, number (nb) 531, number (nb) 533, number (nb) 538, number (nb) 543, number (nb) 544, number (nb) 545, number (nb) 551, number (nb) 556, number (nb) 559, number (nb) 562,



48. (Currently Amended) A method of reducing hypertension in a patient, the method comprising administering to the patient a therapeutically effective amount of an inhibitor of soluble epoxide hydrolase, wherein said ~~which~~ inhibitor or a pharmaceutically acceptable salt thereof is a compound having a structure of:

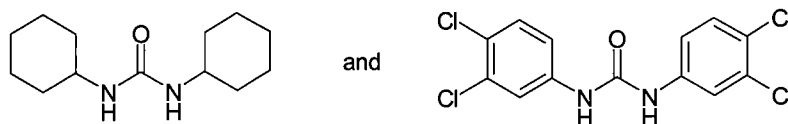


wherein R¹ and R³ are each independently selected from the group consisting of C₁-C₂₀ substituted or unsubstituted alkyl, cycloalkyl, aryl, acyl, and heterocyclic.

49. (Currently Amended) A method of reducing hypertension in a patient, the method comprising administering to the patient a therapeutically effective amount of an inhibitor or a pharmaceutically acceptable salt thereof of soluble epoxide hydrolase, wherein said ~~which~~ inhibitor is selected from the group consisting of a compounds recited in Table I as:

number (nb) 20, number (nb) 21, number (nb) 22, number (nb) 23, number (nb) 36,
number (nb) 38, number (nb) 44, number (nb) 53, number (nb) 57, number (nb) 58,
number (nb) 59, number (nb) 60, number (nb) 65, number (nb) 66, number (nb) 67,
number (nb) 75, number (nb) 100, number (nb) 103, number (nb) 104, number (nb) 105,
number (nb) 108, number (nb) 118, number (nb) 119, number (nb) 124, number (nb) 125,
number (nb) 126, number (nb) 128, number (nb) 140, number (nb) 143, number (nb) 148,
number (nb) 151, number (nb) 153, number (nb) 156, number (nb) 157, number (nb) 159,
number (nb) 167, number (nb) 168, number (nb) 169, number (nb) 170, number (nb) 172,
number (nb) 175, number (nb) 176, number (nb) 178, number (nb) 179, number (nb) 180,
number (nb) 181, number (nb) 183, number (nb) 188, number (nb) 189, number (nb) 192,
number (nb) 193, number (nb) 253, number (nb) 257, number (nb) 270, number (nb) 283,
number (nb) 286, number (nb) 287, number (nb) 297, number (nb) 299, number (nb) 341,
number (nb) 343, number (nb) 344, number (nb) 347, number (nb) 354, number (nb) 358,
number (nb) 359, number (nb) 360, number (nb) 361, number (nb) 362, number (nb) 375,
number (nb) 377, number (nb) 379, number (nb) 380, number (nb) 384, number (nb) 385,
number (nb) 411, number (nb) 412, number (nb) 413, number (nb) 425, number (nb) 427,
number (nb) 428, number (nb) 429, number (nb) 430, number (nb) 434, number (nb) 435,
number (nb) 437, number (nb) 438, number (nb) 461, number (nb) 463, number (nb) 470,
number (nb) 471, number (nb) 473, number (nb) 477, number (nb) 478, number (nb) 479,
number (nb) 501, number (nb) 504, number (nb) 508, number (nb) 509, number (nb) 531,

number (nb) 533, number (nb) 538, number (nb) 543, number (nb) 544, number (nb) 545,
number (nb) 551, number (nb) 556, number (nb) 559, number (nb) 562,



50. (New) The method according to claim 46, wherein said inhibitor inhibits soluble epoxide hydrolase enzymatic activity with an IC_{50} of less than 500 μM .

51. (New) The method according to claim 46, wherein said inhibitor inhibits soluble epoxide hydrolase enzymatic activity with an IC_{50} of less than 17.8 μM .

52. (New) The method according to claim 48, wherein said inhibitor inhibits soluble epoxide hydrolase enzymatic activity with an IC_{50} of less than 500 μM .

53. (New) The method according to claim 48, wherein said inhibitor inhibits soluble epoxide hydrolase enzymatic activity with an IC_{50} of less than 17.8 μM .